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PN - JP56025969 A 19810312
 PD - 1981-03-12
 PR - JP19790099762 19790804
 OPD - 1979-08-04
 TI - MANUFACTURE OF PRODUCT HAVING GLASSY FILM
 IN - HATSUSHIRO MASAHIKO; YAMAKAWA SEISHIROU
 PA - MATSUSHITA ELECTRIC WORKS LTD
 IC - C03C17/25; C04B41/32; C23D5/00

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TI - Forming transparent glass coatings on substrates, e.g. metals - by applying aq. alkali metal silicate soln. and phosphate borate or aluminate baking and treating with hot water or steam
 PR - JP19790099762 19790804
 PN - JP56025969 A 19810312 DW 198118 000pp
 - JP59049310B B 19841201 DW 198501 000pp
 PA - (MATW) MATSUSHITA ELECTRIC WORKS LTD
 IC - C03C17/25; C04B41/32; C23D5/00
 AB - J56025969 Method comprises (1) applying an alkali metal silicate aq. solution containing (a) silicate of formula $M_2O \cdot xSiO_2 \cdot yH_2O$ (where M is alkali metal, x is at least 0.5, and y is 0 or positive number) and (b) at least one of phosphate, borate and aluminate of alkali metal an amount of 1-30 mol.% based in SiO_2 (calculated as P_2O_5 , B_2O_3 or Al_2O_3 respectively), (2) drying, (3) baking, (4) treating with hot water or steam.
 - Pref. substrate is metallic plate (such as Al), glass plate or cement plate.
 - Transparent, clear glassy coatings can be formed.
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 PA - MATSUSHITA ELECTRIC WORKS LTD
 TI - MANUFACTURE OF PRODUCT HAVING GLASSY FILM
 AB - PURPOSE: To manufacture products having transparent glassy coating, by mixing alkali metal silicate of specific component with a specific salt of 1a group alkali metal of the periodic table at a prescribed ratio.
 - CONSTITUTION: A material, shown by formula, comprising alkali metal silicate and a modifying agent contg. at least one member among phosphate, borate, and aluminate of 1a group alkali metal of the periodic table is used as the raw material. Said components in total 1-30mol in terms of respective P_2O_5 , B_2O_3 , Al_2O_3 are mixed with 100mol SiO_2 component contained in glassy coating to prepare an aqueous soln. of modified alkali silicate. The aqueous soln. is applied to a material, dried at < 100 deg.C temp., and baked primarily at 100-200 deg.C temp. and secondarily at 200-400 deg.C to form a film which is dealkalized with hot water and steam at >= 50 deg.C temp. for >= 0.5min respectively thereby producing a transparent glassy film.
 I - C23D5/00; C03C17/25; C04B41/32